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50X1-HUM

Wholesale Price List of Metal-Cutting

Machine Tools and Press and Forging Equipment

Preyskurant Optovykh Tsen na Metallorezhushchiye
Stanki i Kuznechno-Pressovoye Oborudovaniye,
Tsentral'noye Byuro Tekhnicheskoy
Informatsii, Moscow, 1950.

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WHOLESALE PRICE LIST OF METAL-CUTTING MACHINE TOOLS AND PRESS AND FORGING EQUIPMENT*

Wholesale Price List of Metal-Cutting Machine Tools published by TsBTI (Central Bureau of Technical Information) of Min. of Mach. Tool Bldg. in 1949		Name of the Product	Model or Mark of Product	Basic Specifications	Wholesale Price including packing, FOB RR Shipping Point, in rubles
Item No.	Page No.			Height of centers and the distance between centers, mm	
1	3	Bench Lathe	T-65	65 x 200	2,632
2	4	Precision Lathe	1613N	125 x 165	8,460
3	4	Screw-cutting Lathe	1611	125 x 750	11,092
4	5	Same	TV-02	150 x 700	7,520
5	6	Precision Screw-cutting Lathe	TP-1M	150 x 750	20,680
6	7	Screw-cutting Lathe	1615	150 x 750	6,204
7	8	Same	1615M	150 x 750	6,204
8	9	Same	1616	150 x 750	18,706
9	10	Same	TN-15	150 x 1000	7,520
10	11	Same	IV-61	150 x 500	6,580
11	11	Same	IV-61	150 x 1000	12,690
12	12	Same	T-4-A	160 x 750	7,050
13	13	Precision screw-cutting Lathe	TV-01	170 x 965	23,359
13a	15	Screw-cutting Lathe	161A	175 x 750	9,663
14	15	Same	161A	175 x 1000	9,663
15	16	Same	1617	180 x 750	11,092
16-17	17	Same	1D62M	200 x 750	11,186
18	18	Same	1D62M	200 x 1000	11,374
19	18	Same	1D62M	200 x 1500	12,032
20	19	Same	1D62M	200 x 2000	12,408
21	19	Same	1A62	200 x 750	13,160
22	20	Same	1A62	200 x 1000	13,536
23	21	Same	1A62	200 x 1500	13,912
24	21	Same	1A62	200 x 2000	14,288
25	21	Same	162	200 x 750	12,784
26	22	Same	162	200 x 1000	13,066
27	23	Same	162	200 x 1500	13,630
28	23	Lathe	T-1	200 x 875	11,092
29	24	Screw-cutting Lathe	T-60	250 x 1000	22,560
30	25	Same	TU-3	275 x 1500	18,800
31	25	Same	1D63	300 x 1500	18,800
32	27	Same	1D63	300 x 3000	21,056
33	27	Same	1D63A	300 x 1500	23,030
34	28	Same	1D63A	300 x 3000	24,440
35	28	Same	1D65	500 x 2500	73,978
36	30	Same	1D65	500 x 3000	79,900

* Price changes in conformity with the decree of the Council of Ministers of the USSR, No. 1911, 9 May 1950, effective 1 July 1950.

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				Hgt/cent and dist/bet/cent, mm	
37	30	Screw-cutting Lathe	1D65	500 x 5000	84,600
38	31	Combination Machine Tool	S-195	250 x 1000	46,718
39	33	Open side Vertical Lathe	152	Table Diameter: 845 mm	75,200
40	35	Same	153	Same:1,000 mm	87,420
41	36	Multiple-tool Semi-automatic Lathe	1720	Height of centers and distance between centers: 150 x 0-300 mm	14,570
42	37	Same	1730	Same: 200 x 200-500 mm	20,022
43	38	Wheel Lathe	1936	Height of centers: 600 mm.; Maximum lgth of wheel pair axle: 2,600 mm.	206,800
44	40	Relieving lathe	K-96	Height of Centers: 280 mm; Dist/bet/cent; 800mm.	36,848
45	42	Roll Lathe	1945	Hgt/cent:500mm; Max. length of work-piece: 4,000mm	164,500
46	43	Same	1A947	Same: 650 x 7,000	310,200
47	44	Ingot-cutting Machine	1865	Hgt/cent: 525mm; Dist/bet/cent: 3,300 mm	451,200
1	45	Turret-Lathe	1318	Max.Bar diameter: 18 mm	6,768
2	46	Same	1325	Same: 25 mm.	11,468
3	47	Same	1336M	Max. work-piece dia: 36 mm.	11,280
4	49	Same	1338	Max. bar dia: 38mm	11,092
5	49	Same	1M36	Dia. of spindle opening: 65 mm.	21,056
6	51	Same	1K36	Same: 65 mm.	28,200
7	52	Same	1M37	Same: 85 mm.	31,678
1	53	Single-spindle Automatic Lathe	1104	Maximum Bar Diameter 4 mm.	18,048
2	55	Same	110	7 mm.	13,160
3	56	Same	112	12 mm.	14,288
4	57	Same	1117	18 mm.	37,600
5	59	Same	1117-25	25mm.	43,804

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				Maximum bar diameter	
6	60	Single-spindle Shaping & Cut-off automatic	1106	8 mm	29,986
7	61	Four-spindle Automatic Lathe	123	36 mm	68,526
8	63	Six-spindle Horizontal Automatic Bar Lathe	1261M	58 mm	86,292
				Max. workpiece dia:	
9	64	Six- Spindle Horizontal Semi automatic Chucking Lathe	1261P	130 mm	108,852
10	66	Eight-spindle Vertical Semiautomatic Lathe	1282	200 mm	159,800
11	67	Six-spindle Vertical Semiautomatic lathe	1A283	300 mm	126,712
12	68	Six-spindle Vertical Semiautomatic Lathe	1284	400 mm	140,248
13	68	Multiple-tool Semiautomatic Lathe	116	Max. work dia. in centers: 200 mm; Dist/betw/cent: 800 mm	29,892
14	70	Same	1B16	Same: 200 mm; 1,200 mm	35,250
15	71	Same	118	Max. turning dia. in chuck: 600 mm; Dist/betw/cent: 1,000 mm	61,100
16	73	Four-spindle Automatic Bar Lathe	1225-4	Max. work dia: 25 mm	84,600
17	74	Five-spindle Chucking Semiautomatic Lathe	1225-5P	Chuck dia: 150 mm	108,664
18	75	Six-spindle Automatic Bar Lathe	1225-6	Max. work dia: 25mm	87,984
19	77	Milling and Centering Semiautomatic	FTs-1	Max. dia. of shafts being machined: 150 mm; Max. lgth. of shafts being machined: 500 mm	45,496
20	78	Same	FTs-2	Same: 150 mm; 1,100 mm	53,674
21	80	Semiautomatic Milling Machine for Milling Slots and Back Edges of Drills	6791	Milling diameter of drill blanks: 10-15mm	45,214

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				Table work surface (length x width), mm	
1	81	Horizontal Milling Machine	680M	750 x 225	8,460
2	81	Same	"Dzerzhinets"	900 x 180	14,570
3	82	Same	6B82G	1,250 x 300	16,450
4	83	Same	6N82G	1,250 x 300	28,200
5	84	Vertical Milling Machine	610G	750 x 225	9,400
6	85	Same	6B12	1,250 x 300	15,980
7	86	Same	6N12	1,250 x 300	27,260
8	87	Universal Milling Machine	678M	550 x 195	12,502
9	89	Same	679	900 x 250	19,740
10	90	Same	6B82	1,250 x 300	16,732
11	91	Same	6N82	1,250 x 300	30,080
12	92	Plano-milling Machine	A662V	1,600 x 450	57,340
13	93	Same	A662	1,600 x 450	75,764
14	94	Same	A663G	2,200 x 650	173,900
15	96	High-speed Vertical Milling Machine	6A54	2,200 x 650	206,800
16	97	Plano-milling Machine	A664D	3,000 x 900	277,018
17	98	Two-spindle Circular Milling Machine	621	Table dia: 1000 mm	73,978
18	99	Same	623	Same: 1,500 mm	106,126
19	100	Drum-milling Machine	6022	Dia. of Drum: 1,000 mm Lgth of drum: 650 mm	263,200
20	101	Key-way Milling Machine	692A	Table work surface: 900 x 250 mm	18,988
21	102	Spline-milling Machine	5617	Max. Milling dia: 175 mm; Max. milling lgth: 350 mm	23,218
22	104	Same	5618	Same: 270 mm; 500 mm	31,490

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23	105	Pantograph Engraving Machine	6461	Table work surface: 300 x 200 mm	8,930
24	106	Same	6463	Same: 300 x 200	7,144
25	107	Profile Milling Semi-automatic	6441A	Same: 1,200 x 600	118,440
				Max. dia. of gear that can be machined	
1	109	Gear Hobbing Machine	ZF-01	750 mm	18,800
2	109	Same	532	750 mm	18,800
3	111	High-duty Gear Hobbing Machine	5326	750 mm	65,800
4	112	Gear Hobbing Machine	5330	1,500 mm	399,500
5	113	Gear shaver	571B	200 mm	34,216
6	114	Same	5715	450 mm	40,232
7	115	Bevel Gear Testing and Generating Machine	572	Max. dia. of gear that can be checked: 450 mm	20,680
8	116	Universal Semiautomatic Bevel Gear Shaper	526	Maximum Module of gear: 8	90,992
9	117	Gear-slotting Machine	5A12	Same: 4	20,680
10	117	Same	514	Same: 6	27,354
1	119	Vertical Boring Machine	RTs-7	Maximum Dia. that can be bored: 165 mm	4,230
2	119	Portable Diamond Boring Machine	2685	Spindle dia: 75 mm	1,504
3	120	Vertical Diamond Boring Machine	2A697	Spindle dia: 85mm	11,938
4	121	Same	2V697	Min and Max dia. that can be bored: 76 - 165 mm	15,980
5	123	Vertical Single Spindle Diamond Boring Machine	2697	Same: 60 - 165 mm	34,122
6	124	One-sided Horizontal Diamond Boring Semi-automatic with Narrow Table	2710	Diameter of hole to be bored: 10-200 mm (depending on setting)	30,550

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7	125	Two-sided Horizontal Diamond Boring Semi-automatic with Hydraulic Feed and Narrow Table	2715	Diameter of hole to be bored: 10-200 mm	31,772
8	126	Two-sided Horizontal Diamond Boring Machine with Hydraulic Feed and Narrow Table	2A715	Same: 10-200 mm	31,772
9	127	Two-sided Horizontal Diamond Boring Semi-automatic with Hydraulic Feed and Wide Table	2716	Same: 10-200 mm	41,830
10	128	Boring Machine with Rotary Table	A-80	Spindle diameter: 80 mm	73,790
11	128	Horizontal Boring Machine	262G	Same: 85 mm	119,380
12	130	Same	2621	Same: 85 mm	117,030
13	132	Same	262D	Same: 110 mm	112,800
14	133	Jig Boring Machine	2450	Table work surface: 1,100 x 600 mm	282,000
15	134	Horizontal Boring Machine	265V	Boring-spindle diameter: 150 mm	756,700
1	136	Planing Machine	7231A	Table work surface: 3,000 x 900 mm	192,700
2	137	Same	724	Same: 4,000 x 1,500	361,900
				Maximum Ram Travel	
3	138	Shaper	Sh-2A	325 mm	6,956
4	139	Same	Sh-3A	450 mm	8,930
5	139	Same	735	500 mm	10,246
6	140	Same	7A35	525 mm	15,040
7	141	Same	736	650 mm	10,340
8	142	Hydraulic Shaper	7A36	700 mm	31,678
9	143	Same	737	900 mm	34,310
1	144	Slotting Machine	7417	160 mm	16,920
1	145	Vertical Broaching Machine	7705	Broaching force: 5 Tons	15,040

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2	145	Vertical Broaching Machine	7A710 and 7710	Broaching Force: 10 tons	34,686
3	146	Horizontal Broaching Machine	7510	Same: 10 tons	14,288
4	147	Same	7520	Same: 20 tons	27,542
5	148	Same	7530	Same: 30 tons	45,684
1	149	Universal Cylindrical Grinding Machine	3G12M	Height of centers: 100 mm; Distance between centers: 750 mm	18,800
2	149	Cylindrical Grinding Machine with three Electric Motors and an Electric Pump	PKSh	Same: 100mm; 750 mm	18,800
3	150	Cylindrical Grinding Machine	3151	Grinding diameter: 150 mm; Grinding length: 750 mm	23,124
4	151	Cylindrical Grinding Machine with Leonardo Drive	3151	Same: 150 mm; 750 mm	35,720
5	152	Cylindrical Grinding Machine	3152	Same: 150 mm; 500 mm	27,542
6	153	Same	316M	Same: 250 mm; 1000 mm	19,458
7	154	Machine for Regrinding Crankshaft Journals	3420	Maximum grinding diameter: 420 mm; Maximum length of workpiece: 1,100 mm	22,560
8	155	Same	3421	Same: 510 mm; 1,100 mm	74,354
9	156	Machine for Regrinding Cams for Camshafts	3430	Maximum journal diameter: 75 mm; Maximum workpiece length: 900 mm	69,090
10.	157	Same	3433	Same: 75 mm; 1,260 mm	18,988
11	158	Machine for Regrinding Crankshafts for Automobile and Tractor Engines	3423	Same: 100 mm; 1,600 mm	29,892

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12	160	Face and Cylindrical Grinding Machine	3T16	Maximum workpiece diameter: 250 mm Maximum grinding length: 1,000 mm	24,346
13	161	Cylindrical Grinding Machine	3164	Maximum grinding diameter: 350 mm; Maximum grinding length: 2,000 mm	55,460
14	162	Semiautomatic Cylindrical Grinding Machine	3486	Same: 150 mm; 240 mm	40,138
				Table Work Surface	
15	163	Surface Grinding Machine with Rectangular Table and Horizontal Spindle	SK-371 and 371	600 x 200 mm	15,040
16	163	Same	362B	1,000 x 300 mm	25,474
17	164	Same	3724	2,000 x 400 mm	142,974
18	165	Surface Grinding Machine with Rectangular Table and Vertical Spindle	373	750 x 300 mm	26,132
19	166	Surface Grinding Machine with Rotary Electromagnetic Table and Vertical Spindle	3756	External table diameter: 750 mm	51,418
20	167	Surface Grinding Machine with Rotary Electromagnetic Table and two Vertical Spindles	3772E	Same: 1,000 mm	116,090
21	168	Two Spindle Vertical Semiautomatic for Grinding Piston Ring Faces	3317	Maximum workpiece diameter: 180 mm	91,838
22	169	Internal Grinding Semiautomatic	3251	Maximum diameter of hole that can be ground: 100 mm	47,000
23	170	Internal Grinding Machine	3A240	Same: 100 mm	24,628

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24	171	Centerless Grinding Machine	SBSh-02	Maximum diameter of workpieces that can be ground: 3--75 mm-	28,200
25	172	Same	3180	Maximum workpiece diameter: 75 mm	28,200
26	173	Universal Thread Grinding Machine	582	Maximum grinding diameter: 250 mm	139,120
1	176	Universal Tool Grinder	3A64	Height of Centers: 125 mm; Distance between centers: 650 mm	7,802
2	177	Universal Tool Grinder	3B64	Same: 100 mm; 395 mm	8,742
3	178	Drill Grinder (Semiautomatic)	3659	Maximum drill diameter: 80 mm	15,510
4	179	Tool Grinder	36 5 /3625/	Cross section of cutters being ground: 50 x 50 mm	13,442
5	180	Bilateral Tool Grinder	3628	Same: 50 x 50 mm	13,630
6	180	Machine for Lapping Cutters	3818	Maximum cross section of cutters being lapped: 40 x 40 mm	5,170
7	181	Bilateral Machine for Grinding Boring Bits	367	Grinding wheel diameter: 500 mm	12,878
8	182	Broach Grinder	360	Maximum diameter of broach being ground: 100 mm	22,184
9	183	Machine for Grinding Sections of Chain Saws	KPSh	Diameter of Grinding Wheel: 100 mm	916
10	184	Machine for Grinding Saws	3692	Maximum diameter of saw being ground: 1,200 mm	19,364
11	185	Hob Grinding Semiautomatic	3A642	Maximum hob diameter: 200 mm	30,926

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12	186	Semiautomatic for Grinding Milling Heads	3667	Maximum Hob Diameter; 700 mm	26,320
1	187	Bench Drilling Machine	2106	Maximum drilling diameter: 6 mm	2,162
2	187	Single-spindle Vertical Bench Drilling Machine	NS12	Maximum drilling diameter: 12 mm	1,598
3	188	Vertical Drilling Machine	SV-12	Same: 12 mm	2,256
4	189	Same	211R	Same: 18 mm	4,230
5	189	Single-spindle Vertical Drilling Machine	2118	Same: 18 mm	4,042
6	190	Vertical Drilling Machine	2121	Drilling diameter: 25 mm	7,520
				Maximum drilling diameter:	
7	191	Same	ZID-3	25 mm	2,820
8	192	Same	2125	25 mm	5,452
9	192	Same	2135	35 mm	9,400
10	194	Same	L-94	75 mm	14,570
1	195	Single-Spindle Portable Radial Drilling Machine	2A592	25 mm	6,956
2	195	Radial Drilling Machine	253	35 mm	26,320
3	196	Same	2B53	35 mm	28,294
4	197	Same	255	50 mm	31,866
5	199	Same	257	75 mm	78,114
1	200	Jig Saw	MN-2	Maximum diameter of material being cut: 100 mm	1,034
2	200	Same	8715	Maximum sawing dia: 150 mm	3,290
3	201	Slitter	R-2	Maximum diameter of material being cut: 200 mm	15,858

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4	202	Hydraulic Hack Saw	872	Maximum diameter of item being cut: 220 mm	5,922
5	203	Circular Saw	866	Same: 240 mm	25,192
1	204	Bolt-threading Machine	9101B	Maximum diameter of thread that can be cut: 1½"	7,990
1	205	Six-spindle Nut Threading Machine	508	Same: 1"	16,732
1	206	Portable Pipe Cutting Machine	TOS-1	Maximum diameter of pipe that can be cut: 292 mm	3,760
2	206	Same	TOS-2	Same: 216 mm	3,572
3	207	Pipe Cut-off Machine	TS-102	Maximum diameter of pipe that can be cut off: 38 mm	5,640
4	207	Same	9122	Same: 60 mm	8,836
1	208	Pipe and Bolt Threading Machine	5A07	Maximum diameter of pipe that can be threaded: 2" Maximum diameter of bolt that can be threaded: 38 mm	13,536
2	209	Pipe Threading Machine	914A 914B	Maximum diameter of pipe that can be threaded: 190 mm	28,670
1	211	Portable Rough Grinder with Flexible Shaft	3382	Diameter of grinding wheel: 200 mm	1,504
2	211	Suspension-type Rough Grinder	3374K	Maximum grinding wheel diameter: 400 mm	1,880
3	212	Bilateral Rough Grinder	3M634	Grinding wheel diameter: 400 mm	2,162
4	213	Suspension-type Rough Grinder	3374	Maximum grinding wheel diameter: 500 mm	4,324
5	214	Bilateral Rough Grinder	3M636	Grinding wheel diameter: 600 mm	3,196

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6	215	Vertical Rough Surface Grinder	3A332	Grinding wheel diameter: 750 mm	5,452
7	216	Bilaterial Rough Grinder	3327	Same: 750 mm	11,562
1	217	Two-spindle Polishing Machine	3B85	Polishing wheel diameter: 300 mm	1,316
2	217	Belt Polishing Machine with Swivel Table	3890		2,820
3	218	Polishing Machine	ShP-2		1,316
1	219	Thread Rolling Machine	5933	Maximum diameter of thread that can be generated: 33 mm	9,024
1	220	Single-spindle Vertical Honing Machine	383	Honing diameter: 85-160 mm	31,678
2	221	Same	3A833	Maximum honing diameter: 165 mm	16,544
3	222	Machine for Relieving Round Dies	8	Diameter of dies that can be machined: 3-36 mm	7,050
4	223	Machine for Grinding Round Dies	27	Diameter of dies being machined: 3-52 mm	5,922
5	223	Machine for Cutting flutes in Taps	1		9,306
6	224	Machine for Backing off the Zabornyy (?) Part of Taps	4M	Diameter of taps being machined: 2-30 mm	10,058
7	224	Machine for Threading Dies	9	Diameter of dies being machined: 6-10 mm	5,170
8	225	Machine for Broaching Squares in Taps	12	Size of squares of Taps being machined: 6-12 mm	8,930

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9	226	Machine for Polishing Shanks of Taps	40		7,520
10	227	Semiautomatic for Stamping Taps	36	Diameter of item being processed: 10-60 mm	8,178
11	227	File-Sharpening Machine	PN-M1	Table travel: 200 mm	2,632
12	228	Same	PN-Ch	Same: 300 mm	5,640
13	228	Same	PN-D	Same: 400 mm	7,238
14	228	Same	PN-M-2	Same: 450 mm	4,230
15	228	Same	PN-T	Same: 400 mm	7,238
16	229	Shaper	SPS-01	Maximum ram travel: 700 mm	33,840
16a	230	Vertical Boring Machine	RP2	Spindle diameter: 88 mm	18,518
17	231	Jig Boring Machine	KR-450	Maximum boring diameter: 100 mm Maximum drilling diameter: 25 mm Height of centers and distance between centers	101,520
18	232	Precision Screw Cutting Lathe	162P	200 x 750 mm	30,080
19	233	Same	1612P	135 x 500 mm	14,852
20	234	Screw Cutting Lathe	1612V	135 x 500 mm	10,340
21	235	Same	TV-5	175 x 1,000 mm	9,663
22	236	Same	MTV-150	150 x 500 mm	15,510
23	237	Universal Milling Machine	UF-09	Table work surface: 550 x 195 mm	17,390
24	238	Screw Cutting Lathe	161AM	Height of centers and distance between centers: 175 x 750 mm and 175 x 1,000 mm	12,220
25	239	Anode-Mechanical Cutter Grinder	AMZ-10		15,980

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				Maximum workpiece diameter:	
1	3	One-pass Cold Upsetting Automatic with One-piece Die	A110	3mm	18,293
2	4	Same	A111	6 mm	30,550
3	5	Two-pass Cold Upsetting Automatic with One-Piece Die	A121	6 mm	36,130
4	6	Same	A123	12 mm	134,850
5	7	Trimming Automatic	A231	10 mm	41,106
6	8	Ball-forming Automatic	A142	8 mm	32,457
7	9	Automatic for Removing Burrs from Bolts	A012	Maximum bolt diameter: 24 mm	47,560
8	10	Nail-making Automatic	A713	Maximum workpiece diameter: 3 mm	15,810
9	11	Same	A715	Same: 6 mm	44,640
10	12	Seven-spindle Automatic	A821	Pressure: 20 tons	47,290
11	13	Thread Rolling Automatic	A253	Maximum thread diameter of bolt: 12 mm	26,784
12	14	Thread-Pressing Automatic	A011	Maximum workpiece diameter: 100 mm	9,021
13	15	Universal Bending Automatic	A910	Same: 0.8 mm	11,625
14	17	Same	A911	Same: 1.2 mm	14,043
15	18	Same	A912	Same: 2 mm	14,880
16	19	Same	A913	Same: 3 mm	18,135
17	21	Horizontal Crank Press for Briquetting Lignin	B814	Pressure: 80 tons	91,140
18	21	Straightening and Cut-off Machine	P03	Maximum workpiece diameter: 3 mm	15,159

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19	22	Straightening and Cut-off Machine	P06	Maximum workpiece diameter: 6mm	16,322
20	23	Press for Forming Phonograph Records	P400	Pressure: 80 tons	33,796
21	25	Press for Straightening Pipes	K106	Maximum pipe diameter: 400 mm	489,645
22	26	Pipe-bending Machine	TG-25-60		11,160
23	26	Pipe-bending Press	210-10	Max. pipe Dia. 75 mm	17,670
24	27	Pipe-bending Machine	TG-38-108		29,760
				Pressure	
1	28	Friction Press	F122	60 tons	16,740
2	29	Same	FA123	100 tons	18,600
3	30	Same	FA125	180 tons	27,621
4	31	Same	F127	300 tons	87,420
1	33	Universal Hydraulic Press	P452	50 tons	16,740
2	34	Same	P454	100 tons	35,247
3	35	Same	GU-200	200 tons	52,080
1	36	Bilateral Inclined Crank Press	K-231	10 tons	3,860
2	38	Same	K232	15 tons	6,045
3	39	Same, with revolving feed	K242	15 tons	10,249
4	40	Bilateral Inclined Crank Press with Roller Feed	K232, VP-1	15 tons	10,323
5	42	Open-side Crank Press	K30	30 tons	11,467
6	44	Same	K115	50 tons	14,880
7	45	Same	K116	70 tons	16,275
8	47	Same	K117	100 tons	24,598
9	48	Bilateral Closed-type Crank Press	K262	150 tons	76,028
10	49	Same	K273	200 tons	132,060

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				Pressure	
1	51	Stamping Press	K801	160 tons	55,577
2	52	Same	K846A	700 tons	162,750
1	54	Pneumatic Hammer	PM-50	50 kg	11,997
2	55	Pneumatic Forging Hammer	M411	75 kg	15,531
3	56	Same	M412	150 kg	17,484
4	57	Same	MPN-300	300 kg	35,340
5	58	Same	M415	400 kg	39,860
6	59	Same	M417	750 kg	93,837
7	60	Air-steam Forging Hammer	M132	1,000 kg	50,964
8	61	Air-steam Forming Hammer	ShP-1	1,000 kg	69,750
9	62	Air-steam Forging Hammer	M133	2,000 kg	109,182
10	63	Same	M134	3,000 kg	139,221
11	64	Air-steam Forming Hammer	KP-1	3,000 kg	168,330
12	65	Same	--	5,000 kg	383,160
13	66	Spring Hammer	M611	30 kg	7,208
14	67	Same	M612	60 kg	14,880
1	68	Rotary Forging Machine	V201	Maximum diameter of Blank: 4.2 mm	11,885
2	69	Same	V202	Same: 7.3 mm	14,229
3	70	Same	V203	Same: 17.5 mm	14,647
4	71	Vertical Forging Machine	V311	Same: 45 mm	10,742
5	72	Horizontal Forging Machine	GKM800	Pressure of heading slide: 800 tons	666,810
6	73	Same	GKM1100	Same: 1,100 tons	995,100
1	74	Aligator Shears	N313	Maximum cutting diameter: 60 mm	85,095

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2	75	Combination Shears	N633	Maximum cutting diameter: 55 mm	81,747
3	77	Same	PPN-1	Same: 44 mm	15,624
4	78	Guillotine Sheet Shearing Machine	NB421	Maximum thickness of sheet that can be cut: 1.5 mm	12,741
5	79	Same	N461	Same: 3 mm	15,345
6	80	Same	N462	Same: 6 mm	28,737
7	81	Guillotine Shears	--		96,720
8	82	Armature (Armaturnyy) Shears	N212	Maximum diameter that can be cut: 32 mm	8,463
9	83	Punching (Vysechnyy) Shears	N533	Maximum thickness of sheet that can be cut: 4 mm	12,973
10	84	Shears for Cutting Rolled Stock	NA911	Maximum diameter that can be cut: 16 mm	1,674
11	84	Same	NA913	Same: 25 mm	2,158
12	85	Lever Shears for cutting Rolled Stock	RN-1	Same: 30 mm	2,232
13	86	Sheet Shearing Machine	N940	Maximum thickness of sheet that can be cut: 1.5 mm	2,790
14	86	Combination Shears	N970	Maximum diameter that can be cut: 13 mm	632
1	87	Creasing Machine	I514	Maximum thickness of sheet: 3 mm	6,417
2	88	Three-Roll Sheet Bending Roll	LGVI800/12	Same: 12 mm	13,950
1	89	Three-Plunger Pump	G351	Productivity: 30 liters per minute	13,485
2	90	Same	GA351	Same: 30 liters per minute	16,322
3	91	Horizontal Three-Plunger Pump	NGO-3-60	Same: 100 liters per Minute	39,153

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4	92	Power Pump	PGN-2		4,464
5	93	Load Accumulator (?)	2AGG-200-120	Liquid working pressure: 200 kg/sq (cm)	76,539
6	94	Two-Valve Distributor	2D-18	Diameter of valve: 18 mm	7,626
7	94	Four-Valve Distributor	4D-18-25	Same: 18 and 25 mm	
8	94	Cast Iron Anvil Blocks for Hammers in Machined Form			1,450 per ton
9	94	Cast Steel Anvil Blocks for Hammers in Machined Form			1,600 per ton
10	95	Single-Crank Two-Column Inclined Press	K-234A	Pressure at end of Stroke: 40 tons	16,275
11	96	Press for Naphthalene		Pressing force: 1,000 tons	448,260
12	98	Thread Rolling Automatic	12NA	Maximum rolling diameter: 12 mm	32,550
13	98	Automatic for Trimming Bolt Heads	120A	Maximum workpiece diameter: 12mm	98,115
14	99	Two-Pass Cold Upsetting Automatic with Split Dies	122VA	Same: 12 mm	134,850
15	100	Two-Pass Cold Upsetting Automatic with Closed Dies	82VA	Same: 8 mm	69,750
16	101	Three-Pass Cold Upsetting Automatic with Closed Dies	53VA	Maximum workpiece diameter: 3 mm	18,507
17	102	Two-Pass Cold Upsetting Automatic with Closed Dies	52VA	Same: 3 mm	18,507
18	103	Crank Press	K117A	Pressure: 100 tons	26,830
19	105	Automatic Press for the Manufacture of Cotter Pins	A771	Maximum diameter of Cotter pins: 6 mm	19,158

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20	105	Shearing Press for Cutting Sheet Metal	LN-1	Maximum thickness of sheet metal that can be cut: 16 mm	46,872
21	106	Shears for Cutting Rolled Section Metal	NS-1	Maximum diameter of metal that can be cut: 65 mm	41,850
22	107	Punch Press	DP-1	Pressure: 50 tons	15,717
23	108	Straightening and Bending (Cam) Press	PG-1		23,064
24	109	Swaging Board Drop Hammer	ShFDO,75	Pressure: 750 kg	88,071
25	111	Guillotine Shears	NG15-4	Maximum thickness of sheet material that can be cut: 15 mm	116,250
		Pipe Bending Machine	TGS-1-M	Maximum pipe diameter: 20"	28,365

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